

**US5608294**

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## High pressure lamp operating circuit with suppression of lamp flicker

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### Abstract

A circuit arrangement for operating a high pressure discharge lamp includes input terminals for connection to a supply voltage source and an apparatus coupled to the input terminals for supplying an alternating lamp current to the high pressure discharge lamp. A device (III) is provided for generating a current pulse in each half period of the lamp current. This current pulse has the same polarity as the lamp current and is superimposed on the lamp current in the latter part of a predetermined fraction of the half periods of the lamp current. The circuit substantially suppresses flickering of the discharge arc during lamp operation.

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(54) Title: METHOD AND CIRCUIT ARRANGEMENT FOR OPERATING A HIGH PRESSURE DISCHARGE LAMP

## (57) Abstract

The invention relates to a circuit arrangement for operating a high pressure discharge lamp comprising input terminals (K1, K2) for connection to a supply voltage source, and means, coupled to the input terminals, for supplying an alternating lamp current to the high pressure discharge lamp. According to the invention, the circuit arrangement also comprises means III for generating a current pulse in each half period of the lamp current, said current pulse having the same polarity as the lamp current and being superimposed on the lamp current in the latter part of a predetermined fraction of the half periods of the lamp current. As a result, flickering of the discharge arc during lamp operation is substantially suppressed.

